Command Reference: WriteTimeSeriesToDataStore()

Write time series to a database datastore

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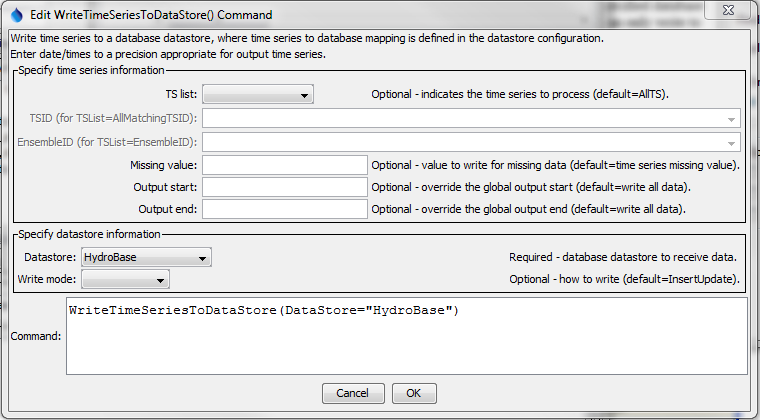
The WriteTimeSeriesToDataStore() command writes time series to the specified database datastore. The datastore database design can be generic. However, this command can only write to databases that have a supported design structure, as explained below. Currently this command is only available for generic datastores (see the Generic Database Datastore appendix). This command cannot be used with web service datastores and use with Excel datastores has not been tested. This command is useful in particular for bulk data loading such as for database initialization and when tight integration with TSTool is not required or has not been implemented.

Currently, this command assumes that the database design is someone time series centric and can be mapped to TSTool time series identifiers (Location.DataSource.DataType.Interval) and provide other time series properties (data units, other properties associated with the time series or associated location), with core tables as follows:

* Definitions, such as data types, data units, data source (providers)
* Locations
* Time series metadata (relationships to the above)
* Time series data records (associated with a time series metadata record)

Relationships between the above tables are handled by mapping time series properties to database tables and columns.

The following dialog is used to edit the command and illustrates the syntax of the command.



WriteTimeSeriesToDataStore

WriteTimeSeriesToDataStore() Command Editor

The command syntax is as follows:

WriteTimeSeriesToDataStore(Parameter=Value,…)

Command Parameters

| Parameter | Description | Default |
| --- | --- | --- |
| TSList | Indicates the list of time series to be processed, one of:   * AllMatchingTSID – all time series that match the TSID (single TSID or TSID with wildcards) will be processed. * AllTS – all time series before the command. * EnsembleID – all time series in the ensemble will be processed. * FirstMatchingTSID – the first time series that matches the TSID (single TSID or TSID with wildcards) will be processed. * LastMatchingTSID – the last time series that matches the TSID (single TSID or TSID with wildcards) will be processed. * SelectedTS – the time series are those selected with the SelectTimeSeries() command. | AllTS |
| TSID | The time series identifier or alias for the time series to be processed, using the \* wildcard character to match multiple time series. | Required if TSList=\*TSID. |
| EnsembleID | The ensemble to be processed, if processing an ensemble. | Required if TSList= EnsembleID. |
| MissingValue | The value to write to the file to indicate a missing value in the time series. | As initialized when reading the time series or creating a new time series, typically -999, NaN, or another value that is not expected in data. |
| OutputStart | The date/time for the start of the output. | Use the global output period. |
| OutputEnd | The date/time for the end of the output. | Use the global output period. |
| DataStore | The name of a database datastore to receive data. | None – must be specified. |
| WriteMode | The method used to write time series data records, recognizing the databases use insert and update SQL statements. Note that any insert/update actions only occur on exact matches of date/time, not on a period. For example, DeleteInsert only deletes records that match the specific date/time of a value in the time series. Specify WriteMode as:   * DeleteInsert – delete the data first and then insert (all values will need to be matched to delete) * Insert – insert the data with no attempt to update if the insert fails * InsertUpdate – try inserting the data first and if that fails try to update * Update – update the data with no attempt to insert if the update fails * UpdateInsert – try updating the data first and if that fails try to insert | InsertUpdate |